

Course Syllabus

Major Topics and Concepts:

Getting Started

- Things to Know
- Navigation
- Lessons & Assessments
- Course Specifications
- Online Learning 101
- Pace
- Academic Integrity

Segment I

Module One

- 01.00 Module One Checklist and Pretest
- 01.01 The Number Line
- 01.02 Adding and Subtracting Rational Numbers
- 01.03 Mid-Module Check
- 01.04 Multiplying Rational Numbers
- 01.05 Strategies for Rational Numbers
- 01.06A Irrational Numbers
- 01.07A Approximating Rational Numbers
- 01.08 Module One Practice Test
- 01.09 Discussion-Based Assessment
- 01.10 Module One Test
- 01.11A Module One Advanced Test

Module Two

- 02.00 Module Two Checklist and Pretest
- 02.01 Dividing Rational Numbers
- 02.02 Converting Rational Numbers
- 02.03 Rational Numbers in the Real World
- 02.04A Exponents
- 02.05A Operations with Roots
- 02.06A Scientific Notation
- 02.07A Operations with Scientific Notation
- 02.08 Module Two Practice Test
- 02.09 Discussion-Based Assessment
- 02.10 Module Two Test
- 02.11A Module Two Advanced Test

Module Three

- 03.00 Module Three Checklist and Pretest

- 03.01 Expanding and Simplifying Expressions
- 03.02 Applications of Expressions
- 03.03 Mid-Module Check
- 03.04 Equations
- 03.05 Inequalities
- 03.06A Linear Equations
- 03.07A Systems of Equations
- 03.08 Module Three Practice Test
- 03.09 Discussion-Based Assessment
- 03.10 Module Three Test
- 03.11A Module Three Advanced Test

Module Four Honors

- 04.00 Module Four Checklist and Pretest
- 04.01 Unit Rates
- 04.02 Characteristics of a Proportion
- 04.03 Proportionality and Equations
- 04.04 Application of Ratios
- 04.05 Applications of Percents
- 04.06A Graphing Proportional Relationships
- 04.07A Slope-Intercept Form
- 04.08 Module Four Practice Test
- 04.09 Discussion-Based Assessment
- 04.10 Module Four Test
- 04.11A Module Four Advanced Test
- 04.12 Segment One Practice Test
- 04.13 Segment One Exam
- 04.14A Segment One Advanced Exam

Segment II

Module Five

- 05.00 Module Five Checklist and Pretest
- 05.01 Scale Drawings
- 05.02 Angles and Triangles
- 05.03 Mid-Module Check
- 05.04 Circles
- 05.05 3-D Figures and Cross Sections
- 05.06A Transformations
- 05.07A Congruency
- 05.08A Transformations and the Coordinate Plane
- 05.09A Transversals and Angles
- 05.10 Module Five Practice Test
- 05.11 Discussion-Based Assessment
- 05.12 Module Five Test
- 05.13A Module Five Advanced Test

Module Six

- 06.00 Module Six Checklist and Pretest
- 06.01 Understanding Probability
- 06.02 Approximating Probability
- 06.03 Mid-Module Check
- 06.04 Probability Models
- 06.05 Data Observation
- 06.06A Pythagorean Theorem
- 06.07A Applications of the Pythagorean Theorem
- 06.08A Pythagorean Theorem on the Coordinate Plane
- 06.09A Formulas
- 06.10 Module Six Practice Test
- 06.11 Discussion-Based Assessment
- 06.12 Module Six Test
- 06.13A Module Six Advanced Test

Module Seven

- 07.00 Module Seven Checklist and Pretest
- 07.01 Representing Sample Spaces
- 07.02 Understanding Compound Events
- 07.03 Probability Simulations
- 07.04A Introductions to Functions
- 07.05A Understanding Linear Functions
- 07.06A Applications of Functions
- 07.07A Analyzing Functions
- 07.08 Module Seven Practice Test
- 07.09 Discussion-Based Assessment
- 07.10 Module Seven Test
- 07.11A Module Seven Advanced Test

Module Eight

- 08.00 Module Eight Checklist and Pretest
- 08.01 Samples and Inferences
- 08.02 Statistical Variability and Comparing Populations
- 08.03 Applications of Statistics
- 08.04A Scatterplots
- 08.05A Line of Best Fit
- 08.06A Interpreting Lines
- 08.07A Frequency Tables
- 08.08 Module Eight Practice Test